

Claims

1. (Currently amended) An image sensing apparatus comprising an image sensing unit which converts an optical image of an object into an electric image signal, and an interface capable of communicating with an external printing apparatus, wherein the image sensing apparatus comprises:

a communication control unit which starts communication between the image sensing apparatus and the external printing apparatus, with the external printing apparatus being a host and the image sensing apparatus being a slave, to transfer the image signal to the external printing apparatus via the interface;

a detection unit which automatically detects, upon a connection between the image sensing apparatus and the external printing apparatus is being established, whether control relation between the image sensing apparatus and the external printing apparatus is a first type of direct printing in which the external printing apparatus and the image sensing apparatus are connected in Mass Storage Class mode of USB and ~~the external printing apparatus is configured in such a way that~~ a memory in the image sensing apparatus can be accessed directly from the external printing apparatus, or a second type of direct printing in which ~~the external printing apparatus is configured in such a way that~~ processing in the external printing apparatus can be controlled by a controller of the image sensing apparatus, by communication with the external printing apparatus via the interface; and

a display unit; and

a processing controller which automatically changes between a processing procedure for processing an image in the image-sensing apparatus by the external printing apparatus based on the detection in which the image sensing apparatus is restricted to transmission of image data stored in a memory of the image sensing apparatus to the external printing apparatus in response to an instruction from the external printing apparatus in a case where the first type of direct printing is detected, and a processing procedure in which the image sensing apparatus transmits image data to be printed and a print command to the external printing apparatus in a case where the second type of direct printing is detected,

wherein the processing controller (i) displays a message to operate the external

printing apparatus and turns off the display unit in response to the detection of the first type of direct printing, and (ii) displays a message to perform print operation on the display unit in response to the detection of the second type of direct printing.

2. (Previously presented) The image sensing apparatus according to claim 1, wherein in a case where the control relation is the second type, the external printing apparatus is controlled based on a predetermined file or command from the image sensing apparatus.

3. (Canceled).

4. (Previously presented) The image sensing apparatus according to claim 1, wherein in a case where the control relation is the first type, the processing of the image from the image sensing apparatus can be started based on an operation of a switch provided in the external printing apparatus.

5. (Previously presented) The image sensing apparatus according to claim 1, wherein in a case where the control relation is the second type, the external printing apparatus can start the processing of the image from the image sensing apparatus in response to an operation of a switch provided in the image sensing apparatus.

6. (Previously presented) The image sensing apparatus according to claim 1, wherein in a case where the control relation is the first type, the external printing apparatus comprises a display unit which displays the image from the image sensing apparatus.

7. (Previously presented) The image sensing apparatus according to claim 1, wherein the external printing apparatus is a printing apparatus, which prints the image from the image sensing apparatus.

8-13. (Canceled).

14. (Currently amended) A control method for an image sensing apparatus

comprising an image sensing unit which converts an optical image of an object into an electric image signal, and an interface capable of communicating with an external printing apparatus, and a display unit, the control method comprising:

starting communication between the image sensing apparatus and the external printing apparatus, with the external printing apparatus being a host and the image sensing apparatus being a slave, to transfer the image signal to the external printing apparatus via the interface;

automatically detecting, upon a connection between the image sensing apparatus and the external printing apparatus is being established, whether control relation between the image sensing apparatus and the external printing apparatus is a first type of direct printing in which the external printing apparatus and the image sensing apparatus are connected in Mass Storage Class mode of USB and the external printing apparatus is configured in such a way that a memory in the image sensing apparatus can be accessed directly from the external printing apparatus, or a second type of direct printing in which the external printing apparatus is configured in such a way that processing in the external printing apparatus can be controlled by a controller of the image sensing apparatus, by communication with the external printing apparatus via the interface; and

automatically changing between a processing procedure for processing an image in the image sensing apparatus by the external printing apparatus based on the detection in which the image sensing apparatus is restricted to transmission of image data stored in a memory of the image sensing apparatus to the external printing apparatus in response to an instruction from the external printing apparatus in a case where the first type of direct printing is detected, and a processing procedure in which the image sensing apparatus transmits image data to be printed and a print command to the external printing apparatus in a case where the second type of direct printing is detected.

wherein the changing step (i) displays a message to operate the external printing apparatus and turns off the display unit in response to the detection of the first type of direct printing, and (ii) displays a message to perform print operation on the display unit in response to the detection of the second type of direct printing.

15. (Previously presented) The control method according to claim 14, wherein in a case where the control relation is the second type, the external printing apparatus is controlled based on a predetermined file or command from the image sensing apparatus.

16. (Canceled).

17. (Previously presented) The control method according to claim 14, wherein in a case where the control relation is the first type, the processing of the image from the image sensing apparatus can be started in response to an operation of a switch provided in the external printing apparatus.

18. (Previously presented) The control method according to claim 14, wherein in a case where the control relation is the second type, the external printing apparatus can start the processing of the image from the image sensing apparatus in response to an operation of a switch provided in the image sensing apparatus.

19. (Previously presented) The control method according to claim 14, wherein in a case where the control relation is the first type, the external printing apparatus comprises a display unit which displays the image from the image sensing apparatus.

20. (Previously presented) The control method according to claim 14, wherein the external printing apparatus is a printing apparatus, which prints the image from the image sensing apparatus.

21-50. (Canceled).

51. (Original) A computer readable storage medium storing a program for implementing the control method described in claim 14.

52-54. (Canceled).

55. (Currently amended) The image sensing apparatus according to claim 1, wherein the first type is the control relation in which the external printing apparatus is

~~capable of accessing to the memory of the image sensing apparatus but~~ is not capable of accessing to the controller of the image sensing apparatus.

56-59. (Canceled).

60. (Currently amended) The control method according to claim 14, wherein the first type is the control relation in which the external printing apparatus ~~is capable of accessing to the memory of the image sensing apparatus but~~ is not capable of accessing to the controller of the image sensing apparatus.

61-76. (Canceled).